GMP Human IL-7

Catalog # IL7-HP002 Form: Lyophilized

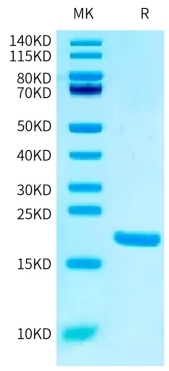
Product Details

Product description	Recombinant GMP Human IL-7 is expressed in E. coli without tag. It contains amino acid residues Asp26-His177 (UniProt accession: P13232).
Molecular aliases	IL7; Interleukin-7; IL-7; Lymphopoietin-1; PBGF
Expression system	E. coli
Molecular weight	The protein has a predicted MW of 17.5 kDa same as Bis-Tris PAGE result.
Purity	≥ 95% as determined by SEC-HPLC.
Endotoxin	≤ 0.01 EU per μg by the LAL method.
Mycoplasma	Negative
Sterility	No growth determined by membrane filtration method.
Residual host cell protein	< 0.5 ng/μg
Residual host cell DNA	< 0.02 ng/μg
Bioactivity	Measure in a cell proliferation assay using PHA-activated human peripheral blood mononuclear cell (PBMC). The specific activity of GMP Human IL-7 is > 1 × 10^8 IU/mg, which is calibrated against the WHO reference standard (NIBSC code: 90/530).
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
State	Lyophilized
Storage	The product is shipped with ice bag. Store it immediately at -20°C±5°C upon arrival. -20°C±5°C for 36 months in lyophilized state. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Activity validation	Activity verified

Protein Integrity

Bis-Tris PAGE

Representative product-page data



Reported result

GMP Human IL-7 on Bis-Tris PAGE under reduced condition.